
Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=1; day=19; hr=10; min=55; sec=46; ms=248;]

Reviewer Comments:

<210> 1

<211> 776

<212> PRT

<213> mammalian

The above <213> response is invalid, per 1.823 of the Sequence Rules. The only valid responses are: the Genus species of the organism, "Artificial Sequence," or "Unknown". "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please indicate the source of the genetic material. For example, "mammalian" would be an acceptable explanation for "Unknown". Same error in Sequence 2.

<210> 11

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 11

As an explanation of "<213> Artificial Sequence", the above <223> response is insufficient. The sequence is obviously a peptide sequence. Please indicate the source of the genetic material; same error in Sequences 12-14.

Validated By CRFValidator v 1.0.3

Application No: 10568396 Version No: 3.0

Input Set:

Output Set:

Started: 2009-12-30 18:59:37.288 **Finished:** 2009-12-30 18:59:38.532

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 244 ms

Total Warnings: 14
Total Errors: 0

No. of SeqIDs Defined: 14

Actual SeqID Count: 14

Error code		Error Description
W	402	Undefined organism found in <213> in SEQ ID (1)
W	402	Undefined organism found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
W	213	Artificial or Unknown found in <213> in SEQ ID (8)
W	213	Artificial or Unknown found in <213> in SEQ ID (9)
W	213	Artificial or Unknown found in <213> in SEQ ID (10)
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
W	213	Artificial or Unknown found in <213> in SEQ ID (14)

SEQUENCE LISTING

<110)>	THE '	TRUS	ΓEES	OF	COLUI	MBIA	UNI	/ERS	TY :	ІИ ТІ	HE C	ITY (OF NI	EW Y	ORK
<120)>	ZAP :	PROTI	EIN A	AND :	RELA:	red (COMP	OSIT:	гоиѕ	AND	METI	HODS			
<130)>	6748	9-PC	r/JP	WL/W											
<140)>	1056	8396													
<141	.>	2006	-08-3	31												
<150)> P	CT/U	s2004	4/02	6162											
<151	_>	2004	-08-	12												
<160)>	14														
<170)>	Pate	ntIn	ver	sion	3.5										
<210)>	1														
<211	->	776														
<212	2>	PRT														
<213	3>	mamm	alian	n												
<400)>	1														
Met 1	Ala	Asp	Pro	Gly 5	Val	Cys	Cys	Phe	Ile 10	Thr	Lys	Ile	Leu	Суз 15	Ala	
His	Gly	Gly	Arg 20	Met	Thr	Leu	Glu	Glu 25	Leu	Leu	Gly	Glu	Ile 30	Arg	Leu	
Pro	Glu	Ala 35	Gln	Leu	Tyr	Glu	Leu 40	Leu	Glu	Thr	Ala	Gly 45	Pro	Asp	Arg	
Phe	Val 50	Leu	Leu	Glu	Thr	Gly 55	Gly	Gln	Ala	Gly	Ile 60	Thr	Arg	Ser	Val	
Val 65	Ala	Thr	Thr	Arg	Ala 70	Arg	Val	Cys	Arg	Arg 75	Lys	Tyr	Суз	Gln	Arg 80	
Pro	Суз	Asp	Ser	Leu 85	His	Leu	Суз	Lys	Leu 90	Asn	Leu	Leu	Gly	Arg 95	Cys	
His	Tyr	Ala	Gln 100	Ser	Gln	Arg	Asn	Leu 105	Cys	Lys	Tyr	Ser	His 110	Asp	Val	
Leu	Ser	Glu	Gln	Asn	Phe	Gln	Ile	Leu	Lys	Asn	His	Glu	Leu	Ser	Glv	

Leu	Asn 130	Gln	Glu	Glu	Leu	Ala 135	Cys	Leu	Leu	Val	Gln 140	Ser	Asp	Pro	Phe
Phe 145	Leu	Pro	Glu	Ile	Cys 150	Lys	Ser	Tyr	Lys	Gly 155	Glu	Gly	Arg	Lys	Gln 160
Thr	Cys	Gly	Gln	Pro 165	Gln	Pro	Cys	Glu	Arg 170	Leu	His	Ile	Cys	Glu 175	His
Phe	Thr	Arg	Gly 180	Asn	Cys	Ser	Tyr	Leu 185	Asn	Cys	Leu	Arg	Ser 190	His	Asn
Leu	Met	Asp 195	Arg	Lys	Val	Leu	Thr 200	Ile	Met	Arg	Glu	His 205	Gly	Leu	Ser
Pro	Asp 210	Val	Val	Gln	Asn	Ile 215	Gln	Asp	Ile	Суз	Asn 220	Asn	Lys	His	Ala
225			Pro		230					235					240
			Arg	245					250					255	
			Phe 260					265					270		
		275	Asp				280	_				285			
	290		Thr		_	295	_	_			300				
305			Pro		310					315					320
			Ala	325					330					335	
ITE	rne	ser	Arg 340	ASN	arg	ser	ASP	345	ser	ser	ser	Arg	350	ser	АІА

Ala Lys Val Ala Gln Arg Asn Glu Ala Val Ala Met Lys Met Gly Met

355 360 365

Glu Val Lys Gly Lys Lys Glu Ala Pro Asp Ile Asp Arg Val Pro Phe 370 375 380 Leu Asn Ser Tyr Ile Asp Gly Val Thr Met Glu Lys Ala Ser Val Ser 390 395 Gly Ile Pro Gly Lys Lys Phe Thr Ala Asn Asp Leu Glu Asn Leu Leu 405 410 415 Leu Leu Asn Asp Thr Trp Lys Asn Val Ala Lys Pro Gln Asp Leu Gln 420 425 Thr Thr Gly Arg Ile Thr Asp Ser Gly Gln Asp Lys Ala Phe Leu Gln 435 440 445 Asn Lys Tyr Gly Gly Asn Pro Val Trp Ala Ser Ala Ser Thr His Asn 450 455 460 Ala Pro Asn Gly Ser Ser Gln Ile Met Asp Glu Thr Pro Asn Val Ser 465 470 475 480 Lys Ser Ser Thr Ser Gly Phe Ala Ile Lys Pro Ala Ile Ala Gly Gly 485 490 Lys Glu Ala Val Tyr Ser Gly Val Gln Ser Pro Arg Ser Gln Val Leu 505 500 510 Ala Val Pro Gly Glu Ala Thr Thr Pro Val Gln Ser Asn Arg Leu Pro 515 520 525 Gln Ser Pro Leu Ser Ser Ser His Arg Ala Ala Ser Gly Ser 535 530 540 Pro Gly Lys Asn Ser Thr His Thr Ser Val Ser Pro Ala Ile Glu Ser 545 550 555 560 Ser Arg Met Thr Ser Asp Pro Asp Glu Tyr Leu Leu Arg Tyr Ile Leu 570 565

Asn Pro Leu Phe Arg Met Asp Asn His Gly Pro Lys Glu Ile Cys Gln

585

590

580

Asp His Leu Tyr Lys Gly Cys Gln Gln Ser His Cys Asp Arg Ser His 600

Phe His Leu Pro Tyr Arg Trp Gln Met Phe Val Tyr Thr Trp Arg 615 620 610

Asp Phe Gln Asp Met Glu Ser Ile Glu Gln Ala Tyr Cys Asp Pro His 625 630 635

Val Glu Leu Ile Glu Asn His Gln Ile Asn Phe Gln Lys Met 645 650 655

Thr Cys Asp Ser Tyr Pro Ile Arg Arg Leu Ser Thr Pro Ser Tyr Glu 660 665

Glu Lys Pro Leu Ser Ala Val Phe Ala Thr Lys Trp Ile Trp Tyr Trp 675 680 685

Lys Asn Glu Phe Asn Glu Tyr Ile Gln Tyr Gly Asn Glu Ser Pro Gly 690 695 700

His Thr Ser Ser Asp Ile Asn Ser Ala Tyr Leu Glu Ser Phe Phe Gln 710 715 705 720

Ser Cys Pro Arg Gly Val Leu Pro Phe Gln Ala Gly Ser Gln Lys Tyr 725 730 735

Glu Leu Ser Phe Gln Gly Met Ile Gln Thr Asn Ile Ala Ser Lys Thr 740 745

Gln Arg His Val Val Arg Arg Pro Val Phe Val Ser Ser Asn Asp Val 755 760 765

Glu Gln Lys Arg Arg Gly Pro Glu 770 775

<210> 2

<211> 2331

<212> DNA

<213> mammalian

<400> 2

atgaccctgg	aggaactgct	gggtgagatc	aggeteeeg	aggcgcagct	ctacgagctg	120	
ctggagacgg	cggggcccga	tegettegtg	ctattggaga	ctggaggcca	ggccgggatc	180	
actcggtctg	tagtggctac	tactcgagcc	cgcgtctgcc	gtcggaagta	ctgccagaga	240	
ccctgcgaca	gcctgcacct	ctgcaagctt	aatctgctcg	gccggtgcca	ctatgcacag	300	
tctcagcgga	acctctgcaa	atattctcac	gatgttctct	cggaacagaa	cttccagatc	360	
ctgaagaatc	atgagctctc	tgggcttaac	caagaggagc	tagcttgcct	cctggtccaa	420	
agcgaccctt	ttttcctgcc	cgagatatgc	aagagttaca	aaggagaggg	ccgaaaacag	480	
acctgtgggc	agccacagcc	atgcgagaga	ctccacatct	gtgagcactt	cacccggggc	540	
aactgcagtt	acctcaactg	tctcaggtct	cacaacctga	tggacagaaa	ggtgttgacc	600	
atcatgaggg	agcacgggct	gagtcctgat	gtggtccaga	acatccagga	catctgcaac	660	
aacaaacacg	ccaggaggaa	cccgcctggc	acgagagctg	cccatccaca	ccgcagaggc	720	
ggcgcacaca	gagacagaag	caaaagcaga	gaccgcttcc	ttcacaacag	tctagaattt	780	
ctctcacctg	ttgtctcacc	tctgggatct	ggtccgccta	gcccagatgt	caccagctgt	840	
aaagattccc	tggaggatgt	gtctgtggat	gtcacccaga	agttcaagta	cttggggacg	900	
catgaccgtg	cgcagctctc	cccagtctca	tctaaggctg	ctggtgttca	aggacccagt	960	
caaatgagag	caagccaaga	gttttcagag	gatgggaatc	tagatgacat	attttctagg	1020	
aatcgttctg	attcatcatc	aagtcgagcc	teegetgeea	aggtggcaca	aagaaatgaa	1080	
gctgtggcca	tgaaaatggg	catggaggtc	aagggcaaga	aggaggctcc	agacatcgat	1140	
cgggtcccat	ttttaaatag	ttatattgat	ggggtgacca	tggaaaaagc	atcggtctca	1200	
ggaattccag	gcaaaaagtt	cacagccaat	gatctggaaa	atttgctatt	acttaacgac	1260	
acttggaaga	atgtggctaa	gccccaggat	ctgcagacca	caggcagaat	cactgacagt	1320	
ggccaagaca	aggcattcct	gcagaataaa	tatggaggaa	acccagtgtg	ggcaagtgca	1380	
tccacccata	atgccccaaa	tggctctagt	caaattatgg	atgaaactcc	taatgtctct	1440	
aaaagtagta	ccagtggttt	tgccataaaa	ccagcaattg	ctggaggaaa	agaagcagtc	1500	
tattctggag	ttcagagtcc	gagaagccag	gtcctagctg	tgcctgggga	ggctactacc	1560	
cctgtacaga	gcaacaggct	gcctcagtcg	cctctgtctt	cctcaagcca	cagagetgea	1620	
gcctctggga	gccctggcaa	gaactccacc	catacctctg	tgagcccagc	catcgagtct	1680	
tcaaggatga	catcagaccc	cgatgagtat	ctcctacgct	acatcctaaa	tcctttattt	1740	

aggatggat	a atcatggccc	gaaggaaatc	tgtcaggacc	atctgtacaa	gggctgtcaa	1800
cagagccac	t gcgacaggag	tcacttccat	ctgccctacc	ggtggcagat	gttcgtatat	1860
accacttgg	a gggacttcca	ggacatggag	tctatcgaac	aggcctattg	tgatccccac	1920
gttgaactc	a ttttgataga	aaaccatcag	atcaatttcc	agaaaatgac	ctgtgactcc	1980
taccccatc	c gacgeetete	cactccctca	tatgaggaaa	agccacttag	tgctgtcttc	2040
gccaccaag	t ggatttggta	ttggaagaat	gaatttaatg	aatatatcca	gtatgggaat	2100
gagagccca	g gccacaccag	ctctgacatc	aactctgcgt	acctggagtc	tttcttccag	2160
tcttgtccc	a ggggagtttt	gccattccag	gctggttcac	agaagtacga	gttaagcttc	2220
caagggatg	a ttcagacaaa	tatagcttcc	aagactcaaa	ggcatgttgt	cagaaggcca	2280
gtatttgtt	t cttcgaacga	tgtggagcag	aagagaagag	gtccagagtg	a	2331
<210> 3 <211> 78 <212> DN <213> Ar	A tificial Sequ	lence				
<220>						
<223> PC	R Primer					
<400> 3						
ataagcttg	c caccatggct	tstccststg	stgttccaga	tatgctgaat	tcggcggccg	60
cgccaagtt	g accagtgc					78
<210> 4						
<211> 26						
<212> DN	A					
<213> Ar	tificial Seq	lence				
<220>						
<223> PC	R Primer					
<400> 4						
atatcgatt	c agteetgete	ctcggc				26
<210> 5						
<211> 38						
<212> DN	A					
<213> Ar	tificial Seq	uence				
<220>						
	igonucleotid	9				
<400> 5						

ctagataact tcgtataatg tatgctatac gaagttat

38

```
<210> 6
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Oligonucleotide
<400> 6
                                                                      38
ctagataact tcgtatagca tacattatac gaagttat
<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR Primer
<400> 7
                                                                      25
gcttatccat atgatgttcc agatt
<210> 8
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR Primer
<400> 8
atataggcgg ccgccctctg gacctcttct cttc
                                                                      34
<210> 9
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR Primer
<400> 9
gagetetetg ggettaace
                                                                      19
<210> 10
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
```

<223> PCR Primer

<210> 11 <211> 14 <212> PRT <213> Artificial Sequence <220> <223> peptide <400> 11 Cys Arg Arg Lys Tyr Cys Gln Arg Pro Cys Asp Ser Leu His 5 10 <210> 12 <211> 23 <212> PRT <213> Artificial Sequence <220> <223> peptide <400> 12 Cys Lys Leu Asn Leu Leu Gly Arg Cys His Tyr Ala Gln Ser Gln Arg 5 10 15 Asn Leu Cys Lys Tyr Ser His 20 <210> 13 <211> 23 <212> PRT <213> Artificial Sequence <220> <223> peptide <400> 13 Cys Lys Ser Tyr Lys Gly Glu Gly Arg Lys Gln Thr Cys Gly Gln Pro 5 10 Gln Pro Cys Glu Arg Leu His 20

<210> 14 <211> 18 <212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 14

Cys Glu His Phe Thr Arg Gly Asn Cys Ser Tyr Leu Asn Cys Leu Arg
1 5 10 15

Ser His